



(12) **United States Patent**  
**Duncan**

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(54) **COOLING RECOVERY SYSTEM AND METHOD**

(56) **References Cited**

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 313 days.

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(65) **Prior Publication Data**

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**Related U.S. Application Data**

OTHER PUBLICATIONS

(63) Continuation of application No. 13/405,019, filed on Feb. 24, 2012, now Pat. No. 8,408,015, which is a continuation of application No. 11/852,225, filed on Sep. 7, 2007, now Pat. No. 8,151,579.

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(51) **Int. Cl.**

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**F28D 15/00** (2006.01)  
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(52) **U.S. Cl.**

(57) **ABSTRACT**

CPC ..... **F28F 1/00** (2013.01); **F24F 3/153** (2013.01)

(58) **Field of Classification Search**

CPC ..... F24F 3/1405; F24F 3/153  
USPC ..... 62/90–94, 96, 173, 175, 526; 165/228, 165/104.19

A cooling recover system and method are disclosed. A fluid, such as water, is chilled and provided to a cooling coil to cool and dehumidify air passing over the cooling coil. The fluid is output from the cooling coil through an outlet, and at least a portion of the fluid from the outlet of the cooling coil is provided to an inlet of a heat transfer coil to reheat air passing over the heat transfer coil. The fluid is warmed as it passes through the cooling coil, which warmer temperature serves to reheat the air passing over the heat transfer coil.

See application file for complete search history.

**17 Claims, 20 Drawing Sheets**

